

Serial Number: 09/404,923

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Amendments to the Specification

Please replace the paragraphs on page 9, lines 5-18 with the following rewritten paragraphs:

Emulation may be stopped, for example, at ~~time t_2~~ time t_3 , which is a rising edge of CLOCK_1 corresponding to the transition between INDEX values 4 and 5~~values 2 and 3~~. ~~However, t_2 does~~ However, t_3 does not correspond to an edge for the other clock signals of Figure 3. For prior art emulation systems to ~~stop at t_2~~ stop at t_3 , emulation typically continues until the first edge ~~subsequent to t_2~~ subsequent to t_3 . Thus, the clock domains corresponding to CLOCK_2, CLOCK_3, and CLOCK_4 may not ~~stop at t_2~~ stop at t_3 . For example, CLOCK_2, CLOCK_3, CLOCK_4 stops ~~between t_2 and t_3~~ between t_3 and t_5 . When emulation resumes in the prior art, the stopped clock signals resume from the point at which the clock cycles stopped.

In contrast to the prior art, the present invention allows CLOCK_2, CLOCK_3 and CLOCK_4 to stop and ~~resume at t_2~~ resume at t_3 because look up tables are used to generate clock signals. To ~~stop at t_2~~ stop at t_3 , INDEX values input to look up tables 300, 310, 320 and 330 are stopped at 4 ~~stopped at 2~~. Each clock signal is stopped at that point and does not proceed to the subsequent transition. To resume the clock ~~signals at t_2~~ signals at t_3 , the INDEX values are incremented to 5 and to 3 ~~and~~ and proceed according to desired emulation sequencing.